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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i>	ATTY. DOCKET NO.: 60.1323/1324 CIP	SERIAL NO.: 10/016,246
	APPLICANT: KLEINBERG et al.	EXAMINER:
	FILING DATE: October 30, 2001	GROUP:

U.S. PATENT DOCUMENTS

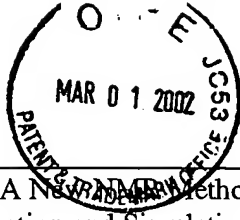
Exam Init.	Document Number	Date	Name	Class	Sub-class	Filing date if appropriate
<i>DN</i>	4,860,581	08/29/89	Zimmerman et al.	73	155	09/23/88
	4,936,139	06/26/90	Zimmerman et al.	73	155	07/10/89
	5,023,551	06/11/91	Kleinberg et al.	324	303	12/19/89
	5,306,640	04/26/94	Vinegar et al.	436	29	10/28/87
	5,796,252	08/18/98	Kleinberg et al.	324	303	01/15/97
	5,939,717	08/17/99	Mullins	250	255	01/29/98
	6,274,865	08/14/01	Schroer et al.	250	269.1	02/23/99

FOREIGN PATENT DOCUMENTS

Exam Init.	Document Number	Date	Country	Class	Sub-class	Translation	
						Yes	No

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

<i>DN</i>	1	J. W. Amyx et al. Petroleum Reservoir Engineering. McGraw-Hill (1960), pg. 458.
	2	E. R. Andrew. Nuclear Magnetic Resonance. Cambridge University Press (1955), pg. 127.
	3	R. Badry et al. "Downhole Optical Analysis of Formation Fluids". Oilfield Review (January 1994), pp. 21-28.
	4	Bloembergen et al. "Relaxation Effects in Nuclear Magnetic Resonance Absorption". Physical Review (1948), Vol. 73, No. 7, pp. 679-712.
	5	R. E. Botto. "Fossil Fuels". Encyclopedia of Nuclear Magnetic Resonance (1996), pp. 1-17.
	6	CRC Handbook of Chemistry and Physics (63rd Edition). CRC Press, 1982-1983, pp. B-73 - B-165.
<i>Not considered</i>	7	R. T. Callaghan. Principles of Nuclear Magnetic Resonance Microscopy. Clarendon Press (1991).
<i>DN</i>	8	A. Caprihan et al. "Flow Measurements by NMR". Physics Reports 198 (1990), pp. 195-235.
	9	A. G. Collins. "Properties of Produced Waters". Petroleum Engineering Handbook, H. B. Bradley, Ed., Chapter 24, pp. 24-1—24-23.
	10	J. J. Dechter. Progress in Inorganic Chemistry, Vol. 29 (1982), pp. 285-385
	11	J. R. Dyer. Applications of Absorption Spectroscopy of Organic Compounds. Prentice-Hall (1965), pp. 84-85.
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not considered	14	E. Fukushima et al. Experimental Pulse NMR. A Nuts and Bolts Approach. Addison-Wesley (1981).
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	16	K. Halbach. "Design of Permanent Multipole Magnets with Oriented Rare Earth Cobalt Material". Nuclear Instruments and Methods 169 (1980), pp. 1-10.
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	18	J. P. Horkowitz et al. "Residual Oil Saturation Measurements in Carbonates with Pulsed NMR Logs". SPWLA 36th Annual Logging Symposium (June 1995), Paper Q, pp. 1-12.
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	21	R. L. Kleinberg et al. "Review: NMR Detection and Characterization of Hydrocarbons in Subsurface Earth Formations" Spatially Resolved Magnetic Resonance (1998), pp. 556-573.
	22	J. C. M. Li et al. "Self-Diffusion Coefficient and Viscosity in Liquids". J. Chem. Phys., Vol. 23, No. 3. (March 1955), pp. 518-520.
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	26	Schlumberger Wireline Formation Testing and Sampling. SMP-7508 (1996), pp. 4-29 and 4-40.
	27	J. M. Singer et al. "Fast NMR Logging for Bound Fluid and Permeability". SPWLA 38th Annual Logging Symposium (June 1997), Paper YY, pp. 1-13.
	28	C. Straley. "An Experimental Investigation of Methane in Rock Materials". SPWLA 38th Annual Logging Symposium (June 1997), Paper AA, pp. 1-14.
	29	B. P. Tissot et al. "Petroleum Formation and Occurrence". Springer-Verlag (1978), Fig. IV.1.20.
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		DATE CONSIDERED 2/21/03
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant		